

西藏库蠓和印度库蠓雄蠓的发现与描述 (双翅目: 蠓科)

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西藏库蠓和印度库蠓的雄蠓迄今尚无描述报道,作者在整理鉴定 1989 年采自西藏的蠓类标本中发现上述两种雄蠓,特作描述。标本保藏于上海第二军医大学寄生虫学教研室。

1 西藏库蠓 *Culicoides tibetensis* Chu, 1977 (图 1)

瞿逢伊: 昆虫学报 20:102(♀)。

雄蠓 翅长约 1.5mm, 前缘脉比 (CR) 约 0.56, 翅浅色斑与雌蠓相同。复眼密接, 各小眼间具细密软毛; 触角第 III, XIII—XV 节具感器, 触角比 (AR) 约 0.71; 触须第 3 节端角处具一圆形感窝, 触须比 (PR) 3.2。小盾片仅具中鬃 2 根。各足棕黄色, 后胫梳鬃 5 根。外生殖器: 第 9 节腹板后缘中央凹陷区宽深, 膜无微毛; 第 9 节背板长, 端部两侧呈圆弧形, 中央微凹, 无端侧突。抱器基节粗壮, 背髁较短小, 腹髁细长发达; 端节细长, 向内微弯, 末端呈叉齿状。阳茎体近似三角形; 中叶端突约占总长的 1/4, 基部具骨化端尖的延伸体; 两侧叶骨化, 杆状, 向两侧分展, 阳茎拱较高; 阳基侧突略呈三角形, 基部 1/2 宽阔, 端半部渐尖细, 末端向内侧弯曲, 个别标本端顶部可见细微分枝。

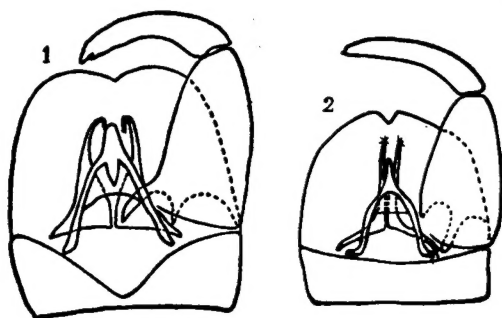


图 1—2 两种雄蠓的外生殖器

1. 西藏库蠓 *Culicoides tibetensis* Chu, 1977 的外生殖器;
2. 印度库蠓 *Culicoides indianus* Macfie, 1932 的外生殖器。

研究标本 西藏: 亚东县 3♀1♂(下司马, 2590m, 1989. VI. 6, 灯诱); 错那县 1♀2♂(勒乡, 2500m, 1989. VII. 11, 灯诱)。

2 印度库蠓 *Culicoides indianus* Macfie, 1932 (图 2)

Macfie, JWS: *Ann Mag Nat Hist* 9:488(♀).

雄蠓 翅长约 1.15mm, 前缘脉比(CR)约 0.53, 翅浅色斑与雌蠓相同。复眼密接, 光裸; 触角第 III、XIII—XV 节具感器, 触角比(AR)约 0.77; 触须第 3 节近端部一侧微凹处具感毛, 触须比(PR)2.33。小盾片鬃 1:1:1。各足棕黄色, 后胫梳鬃 5 根。外生殖器: 第 9 节腹板后缘呈浅凹弧形; 第 9 节背板基部稍宽, 端部略窄, 后缘中央具明显凹陷, 无端侧突。抱器基节粗壮, 背髁细长, 腹髁短小; 端节细长, 内弯。阳茎体中叶端突约占总长的 1/3, 两侧叶骨化, 杆状, 向两侧分展, 阳茎拱较高; 阳基侧突细长, 端部 3/5 呈直柱状, 端顶处具细刺突, 基部 2/5 向外侧平展。

研究标本 西藏: 郎县 4♀1♂(帮起, 2650m, 1989. VII. 27, 灯诱); 错那县 3♀2♂(勒乡, 2500m, 1989. VII. 11, 灯诱)。

DESCRIPTIONS OF NEWLY FOUND MALES OF
CULICOIDES TIBETENSIS CHU AND
CULICOIDES INDIANUS MACFIE (DIPTERA:
CERATOPOGONIDAE) FROM
TIBET, CHINA

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Abstract Two species of biting midges (*Culicoides tibetensis* Chu and *Culicoides indianus* Macfie) were previously known only from females. The descriptive notes on the newly found males hitherto unknown are presented hereon. The specimens are deposited in the collection of Department of Parasitology, Second Military Medical University, Shanghai, China.

1 *Culicoides tibetensis* Chu, 1977 (fig.1)

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Male: Wing length 1.5mm, Costal ratio (CR) 0.56, pattern same as female. Eyes contiguous with minute interfacetal hairs; antenna with sensoria present on segment III, XIII—XV, antennal ratio(AR) 0.71; third segment of maxillary palp with a sensory pit. Scutellum with 2 median bristles only. Legs brownish yellow, hind tibial comb with 5 bristles. The genitalia as figured.

Specimens collected from Tibet: Yadong County (downtown, 2950m, June 6, 1989, light trap, 3♀ 1♂); Cona County (Le, 2500m, July 11, 1989, light trap, 1♀ 2♂).

2 *Culicoides indianus* Macfie, 1932 (fig. 2)

Ann Mag Nat Hist 9:488(♀).

Male: Wing length 1.15mm, CR 0.53, pattern same as female. Eyes contiguous and bare; antenna with sensoria present on segment III, XIII—XV, AR 0.77; third segment of maxillary palp with sensilla scattered on surface of distal portion. Scutellum bristles 1:1:1. Legs brownish yellow, hind tibial comb with 5 bristles. The genitalia as figured.

Specimens collected from Tibet: Lang County (Bang-qi, 2650m, July 27, 1989, light trap, 4♀ 1♂); Cona County (Le, 2500m, July 11, 1989, light trap, 3♀ 2♂).